

2.7 Telephone Line

The Model 800 will operate with all standard analog telephone lines that accept pulse or tone dialing. The Model 800 cannot be used on an extension line to dial its own telephone number. Also, it may **not** be installed on a party line, pay telephone line, or digital telephone system.

Certain private telephone systems and public switching equipment may not accept the Model 800 dialing or may generate an unacceptable ring signal. In those cases, a dedicated line may be required. Consult the supplier of your telephone system if you encounter problems.

If you do not have a modular telephone extension at the Model 800's location, you must contact your local telephone company to have one installed (there is a charge for this service). If you have four-pin jacks, adapters are available to convert them to the modular plugs. Contact your local telephone company or electronics parts store.

CAUTION

Never install telephone wiring during a lightning storm. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface. Use caution when installing or modifying telephone lines.

To install the telephone line, plug one end of the modular cord into the “line” jack on the back of the model 800 (as shown) and plug the other end into any standard RJ11 phone outlet. Refer to Figure 2-4.

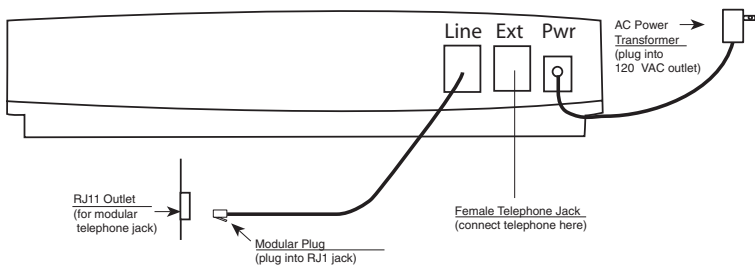


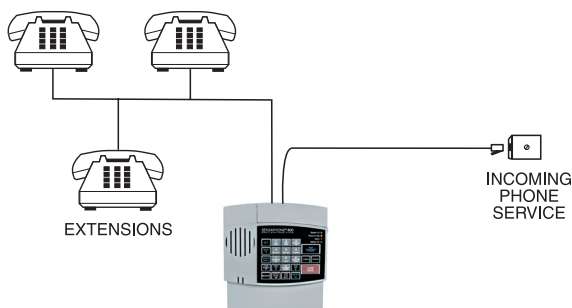
Figure 2-4. Installing the Telephone Line

On the back of the Model 800 is an extra female telephone jack labeled “EXT”. This is provided so that a telephone or other answering device may be used on the same line as the unit.

(It is not necessary to hook up a telephone for the Model 800 to operate.) This extension jack features Line Seizure which means that it will disconnect the extension jack when the Model 800 needs to make a telephone call. To ensure that the unit has priority over any other device on the line, you must connect all extensions to this jack. (see figure)

On the unit there are two RJ11C phone jacks:

- The RJ11C jack labeled “LINE” is to be connected to the incoming line of your phone service, ahead of all other phones or telephone extensions.
- The RJ11C telephone jack labeled “EXT” is to be connected to all extensions.



2.8 The Microphone

The Model 800 is provided with a built-in microphone which is used to monitor high sound levels produced near the installation site. The sensitivity of the microphone is configurable and will detect a continuous as well as a pulsating alarm. Note that beeping alarms that have a half second or more of silence between beeps will not be detected.

Other programming options that apply to the microphone include setting the length of time before a high sound causes an alarm.

If this sound level exists for 8 consecutive seconds (default) or for the programmed length of time, the Model 800 will dial out with an alarm message.

NOTE

The proximity of the audible alarm to the microphone is extremely important.

Normally, the Model 800 and the audible alarm must be in the same room. The maximum distance can vary considerably depending on the alarm, the acoustics, and the size of the room.

During an alarm dial-out, the microphone allows four-second intervals to listen-in to sounds at the Model 800's location.

When calling for a Status Report, the microphone permits listening to on-site sounds for a programmed time interval.

2.9 Alert Zones

Open the input/output wiring door located above the keypad. The Model 800 can monitor up to 8 zones (represented by the numbered terminal screws shown in Figure 2-5, below).

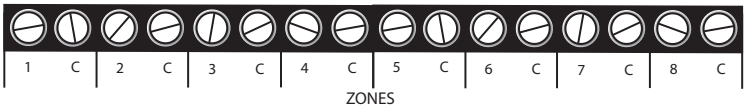


Figure 2-5. Alert Zones

Zones are configured as either dry contact or temperature. A zone configured as dry contact can be used with any normally open (N.O.) or normally closed (N.C.) device. “Open” refers to an opened circuit path; if conditions cause the circuit to close, an alert condition occurs. “Closed” refers to a continuous circuit path; if a closed circuit is opened, an alert condition occurs. The Model 800 determines the way zones are configured by the type of sensor connected to each alert zone (refer to Chapter 5.)

A zone configured as “temperature” is designed to evaluate a range of settings. The Model 800 will read the temperature at the sensor's location and compare that value to programmed high and low temperature limits. Temperature zones must be used with Sensaphone's 2.8K Remote Temperature Sensor or weatherproof sensor.

NOTE

Before wiring, it is advisable to disable the zones to prevent accidentally tripping an alarm. See Chapter 5.

Important Note regarding Ultra-Low temperature freezers:

If you are connecting the Sensaphone to an ultralow temperature freezer (-80° C) and the freezer is equipped with alarm terminals/contacts you can connect these directly to one of the zones on your Sensaphone (refer to your freezer owner's manual for proper connection).

2.10 Installing the Sensor

After you have selected the sensor, loosen the screw of the alert zone and its corresponding common (c). Two wire leads are used to connect any monitoring sensor. Fasten one lead to the numbered screw and the other lead to C. Tighten both screws. If the zone was not disabled, the Model 800 may recite its "Alarm Exists" message as you connect the sensor. If it does, just press ALARM CANCEL to stop it. Re-enable the zone after wiring. Refer to Figures 2-6 and 2-7 for connecting a sensor to an alert zone.

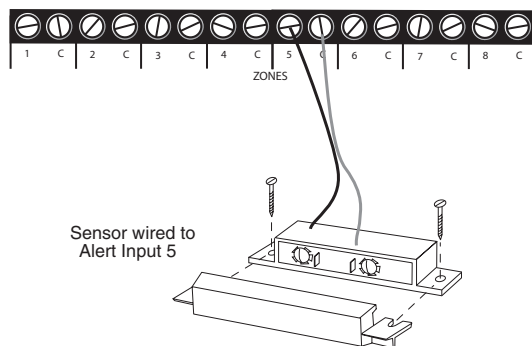


Figure 2-6. Sensor Connected to an Alert Zone

Any sensor can be attached to the Model 800 using 18-26-gauge wire (#22 recommended). The sensor can be several hundred feet from the unit, as long as the total resistance of the circuit is not greater than 50 ohms. Use wire appropriate for the application.

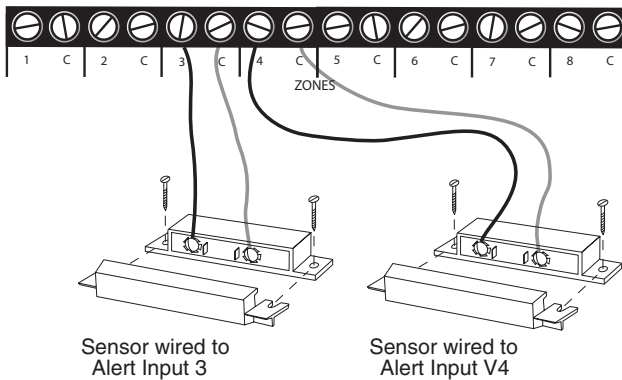


Figure 2-7. Two Sensors Wired to Adjacent Zones

NOTE

Do not use sensors, switches, or relays that supply any voltage or current to the Model 800. Be aware of proximity to other electrical wires or components when placing wires that lead from the sensors to the unit. Avoid running the wires near electrical devices that use high voltage or current, such as motors, heavy machinery, etc. This voltage may be inductively coupled into the sensor wiring and could result in damage to the the Model 800's circuitry. Try to place wires at least 6 inches from other electrical wiring or devices.

2.11 Multiple Sensors

The Model 800 may have more than one sensor connected to the same alert zone, as long as the normal condition for each sensor on the same alert zone is identical (either all N.O. or all N.C.). However, only one remote temperature sensor can be used on each zone.

When wiring several normally closed sensors on one zone, they must be connected in series. Connect one lead from the first sensor to the numbered screw of the alert zone. Next, take the other lead from the first sensor and connect it to one lead from the next sensor. Continue connecting sensors end-to-end until you have connected all of your sensors. Take the second lead from the last sensor and connect it to the common screw on the Model 800.

See Figure 2-8. Multiple N.C. sensors are typically magnetic reed switches to monitor the security of windows and doors.

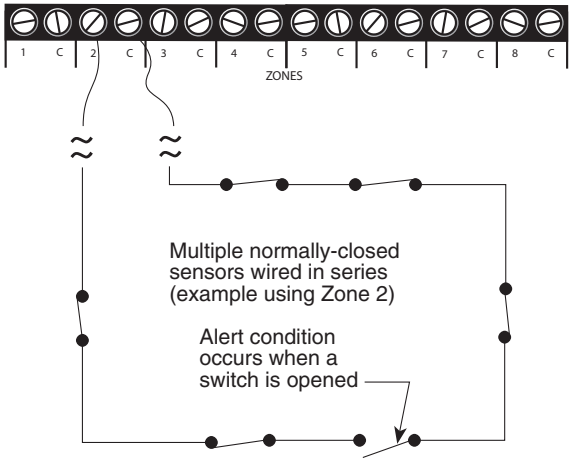


Figure 2-8. Multiple Normally Closed Sensors

To wire several normally open sensors to one alert zone, connect them in parallel. To do this, take one lead from each sensor and attach it to the numbered terminal. Then, take the second lead from each sensor and attach each to the corresponding common screw. Refer to Figure 2-9.

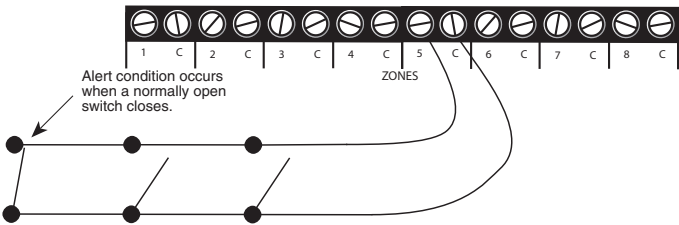


Figure 2-9. Multiple Normally Open Sensors

2.12 Outdoor Wiring

When wiring sensors outdoors, DO NOT allow exposed wires to run freely in open air; under such conditions, the Model

800 is susceptible to serious damage during a lightning storm. Depending upon the distance outdoor wiring must travel, consideration should be given to the use of shielded wire inside a metal conduit. Both shield and conduit should be connected to an earth ground. This prevents stray voltage from entering the unit.

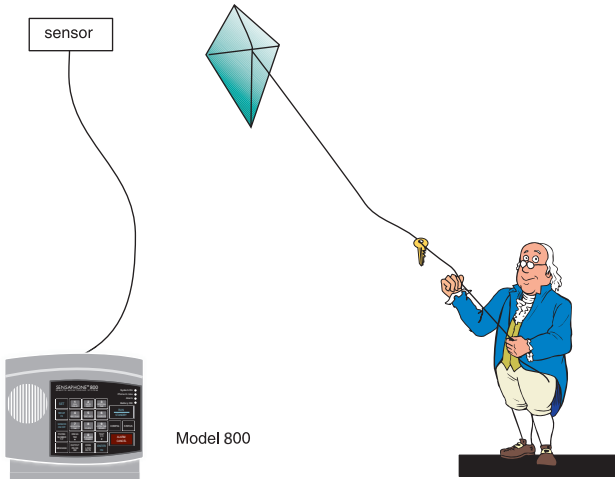


Figure 2-10. Potential Sensor Damage from Stray Electrical Noise

2.13 Disconnecting the Model 800 for Storage or Seasonal Use.

If you plan to employ the Model 800 as a seasonal “watchdog” for a few months during the year, you must disconnect all wires from the unit completely to avoid damage to the circuitry when the unit is not in use. If the unit is unplugged but left in place with all the sensors still connected, the wires act as antennae that draw in any stray “electrical noise” from such devices as fans, blowers, microwaves, etc.

Additionally, it is important to remove the batteries, or they will discharge until they fail.

Preserve your Model 800 during the off-season, or when not in use:

- Remove the sensor wires at the screw terminals
- Remove the batteries
- Unplug the unit and store in a safe place

Chapter 3: Quick Start

This section presents a useful guide for first-time programming of the Model 800. Follow instructions for installation before attempting to program the Model 800. Refer to Chapter 2: Installation.

3.1 The Local Keypad

Programming is accomplished using the local keypad (shown below, Figure 3-1). Notice that a single key has several functions assigned to it; programming results are determined by the order in which keys are pressed.

Individual keystrokes are illustrated to show programming steps in the correct order. If you make a mistake by entering the wrong key, do not press another key until you hear the message “Error 1.” Then, start over with the first key in the programming sequence.

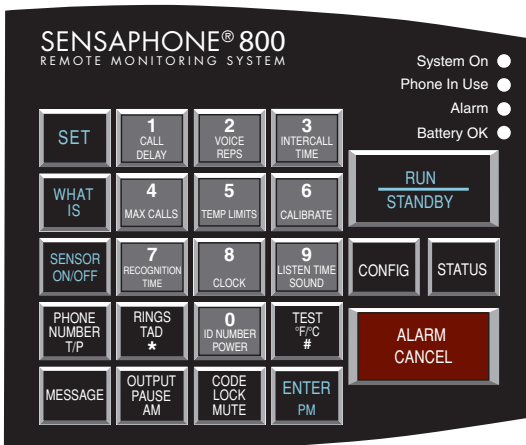


Figure 3-1. The Model 800 Keypad

3.2 Preparation for Programming

Read complete instructions in Chapter 2: Installation, and make sure to follow these three steps first:

1. Plug the AC adapter into the 120 VAC outlet.
2. Install the batteries.
3. Connect the Model 800 to a telephone line.

When these steps are completed, the Model 800 is fully operational and able to monitor temperature, high sound, AC power failure and battery backup condition; it can also be called on the telephone for a Status Report or be used for listening to on-site sounds from any remote location. Now, the unit is ready for programming.

3.3 Quick-Start Programming Steps

Step 1: Set Configuration of Zones

The Model 800 will scan the 8 external zones and determine if they are N.O. (normally open), N.C. (normally closed), or Temperature. If external sensors are added, make sure they are in their normal positions before proceeding—refer to Chapter 5, Section 5.1.

1. Press STANDBY to place the Model 800 in Standby mode.



2. If you have external sensors available, wire the sensors to the zones on the back of the Model 800 (see Chapter 2, Section 2.10). Otherwise, skip this step and move to step 3.
3. Press RUN. The *System On* light glows when the Model 800 returns to Run mode.



4. Press SET.



5. Press CONFIGURE.



6. The Model 800 will audibly recite the new configuration for each of the eight zones, responding with “*normally open*”, “*normally closed*”, or “*Temperature*.” If a zone is unused, it is treated as normally open.

Step 2: Set the ID Number

It is recommended that you set the ID number to reflect the telephone number on which the Model 800 is installed.

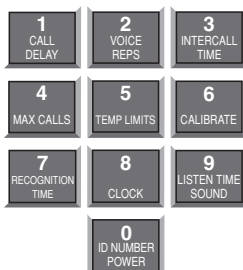
1. Press SET



2. Press ID NUMBER.



3. Using the number keys, enter the digits (up to 16 are permitted) for the ID number. The Model 800 will recite the digits as they are pressed.



4. Press ENTER. The 800 will respond: "Enter."



Step 3: Set Dial-Out Telephone Numbers

To program dial-out telephone numbers:

1. Press SET.



2. Press PHONE NUMBER.



3. Select which telephone number to program. Press any unassigned number key (from 1 to 8) to represent the new telephone number entry. Model 800 will respond: “Enter number.”



4. Enter the complete telephone number using the number keys.
The Model 800 will recite the digits as they are pressed.



5. Press ENTER. The unit will respond: “Enter.”



6. Repeat above procedure to program up to eight separate telephone numbers.

Step 4: Set Temperature Limits

High and low temperature limits can be separately programmed for each zone that is configured as temperature. Limits can range from -20° to $+150^{\circ}$ Fahrenheit, or from -30° to 65° Celsius. Default settings are: 10° F for low temperature and 100° F for high temperature. Do not set temperature limits too close to normal room temperature, since minor fluctuations could result in frequent and unnecessary alarm dialouts.

1. Press SET.



2. Press TEMP LIMITS.



3. Using the number keys, press a number (from 1 to 8) that corresponds to the temperature zone being programmed.

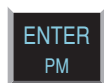


The Model 800 responds: *“Enter low temperature limit.”*

4. Using the number keys, enter a value for low temperature limit. The Model 800 will recite the digits as they are pressed. If a negative number is required, first press *, then enter the number.



5. Press ENTER.

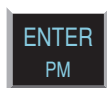


The Model 800 responds: *“Enter high temperature limit.”*

6. Using the number keys, enter the value for high temperature limit. The Model 800 will recite the digits as they are pressed.



7. Press ENTER. The Model 800 responds: “Enter.”



This concludes minimum programming to achieve normal operation of the Model 800. In addition to the programming just accomplished, default settings for many more features take effect when the unit is first powered. You will be able to reprogram most of these factory-set defaults to suit your application.

For a complete explanation of each feature (with illustrations of keystrokes), refer to Chapter 4: Communications Programming and Chapter 5: Alarm Programming.

To gain a basic understanding of how the alarm dial-out feature works, refer to this chapter, Section 3-4. For extended information regarding dial-out and related programmable parameters, refer to Chapter 7: Operation.

3.4 Summary of the Alarm Dial-Out Process

Action—Response	Programmable Feature
<p>1. THE MODEL 800 DETECTS AN ALERT CONDITION</p> <p>An alert condition is not the same as a valid alarm—the condition must continue for the programmed time period, or <i>Recognition Time</i>, before it is recognized as a valid alarm.</p>	<ul style="list-style-type: none">• Recognition Time This is the programmed waiting period to determine if an alert condition has persisted long enough to be considered a valid alarm. If the sensor returns to normal within recognition time, then no alarm will occur.
<p>2. A VALID ALARM IS CONFIRMED</p> <p>An audible, on-site alarm message begins and continues until the alarm is acknowledged. (If the Mute feature is turned on, there is no on-site message.) <i>Call Delay</i> is activated.</p>	<ul style="list-style-type: none">• Call Delay This is the programmed waiting period, before the first telephone number is called, to report an alarm.
<p>3. DIAL-OUT BEGINS</p> <p>Dial-out begins by calling telephone number 1 to report an alarm. If there is no acknowledgment, the Model 800 waits the programmed <i>Intercall Time</i> before dialing subsequent telephone numbers. Dial-out continues in this manner, cycling through the remaining telephone numbers, for the programmed <i>Max Calls</i>.</p>	<ul style="list-style-type: none">• Intercall Time This is the programmed waiting period, in between sequential dialing of telephone numbers, to report an alarm.
<p>4. THE ALARM IS ACKNOWLEDGED</p> <p>When the alarm is acknowledged, the dial-out process is cancelled and the audible, on-site alarm message stops.</p>	<ul style="list-style-type: none">• Max Calls This is the total number of telephone calls that will be dialed in response to any valid alarm. Telephone numbers are dialed sequentially, and continue to cycle until the maximum number of calls is reached. If no acknowledgment occurs, then at the completion of Max Calls, all alarms are automatically acknowledged.

Chapter 4: Communications Programming

This chapter explains the keypad commands for communications programming of the Model 800, including interrogation and resetting of the following:

- Voice Messages
- The Unit ID Number
- Dial-out Telephone Numbers
- Tone or Pulse Dialing
- Special Dialing with Pagers, Beepers and Access Numbers.
- Dial-out test mode
- Rings Until Answer
- Telephone Answering Device Compatibility
- Listen-in Time
- Call Delay
- Local Voice Mute
- Voice Repetitions
- Intercall Time
- Maximum Number of Calls
- The Clock
- Security Code

4.1 Voice Messages

The 800's digital speech recording feature allows you to record custom messages for each of the eight Zones and an ID Message. This means that when the 800 calls you during an alarm, you will hear a personalized Voice Message identifying the unit and telling you exactly what alarm condition exists. You can record a separate message for each of the eight Zones. The message can run a maximum of 5 seconds. The ID Message can be a maximum of 8 seconds. You can shorten the message length by pressing the ENTER key after reciting the message.

The **ID Message** is used to identify the unit. This could be a particular building name, its location (address or city), or some other identifier.

To program the ID Message:

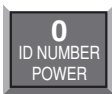
1. Press the SET key.



2. Press the MESSAGE key. The 800 will say “Enter Message Number.”



3. Press the ID key (number 0 key).



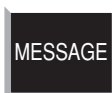
4. When the unit beeps, begin speaking your message into the microphone. The unit will say “OK,” when the recording time has elapsed; then it will play back your recorded message. You can shorten the message length by pressing the ENTER key after speaking your message.

To play back the ID Message:

1. Press the WHAT IS key.



2. Press the MESSAGE key.



3. Press the ID key (number 0 key).



The 800 will play back your recorded message.

The **Zone Messages** are used to identify the device or condition being monitored such as temperature, humidity, equipment alarms, security alarms, etc.

To program the Voice Message for a Zone:

2. Press the SET key.



2. Press the MESSAGE key. The 800 will say, "Enter Message Number."



3. Press the number key for the corresponding Zone.



4. When the unit beeps, begin speaking your message into the microphone. The unit will say "OK," when the recording time has elapsed; then it will play back your recorded message. You can shorten the message length by pressing the ENTER key after speaking your message.

To play back the message for a Zone:

1. Press the WHAT IS key.



2. Press the MESSAGE key.



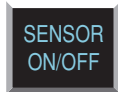
3. Press the corresponding Zone number key.



The 800 will play back your recorded message.

To erase a Zone or ID message:

1. Press the SENSOR ON/OFF key.

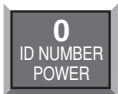


2. Press the MESSAGE key.



The 800 will say “Enter message number.”

3. Press the Zone Number or ID key.



The 800 will say, “Message erased.”

4.2 The Unit ID Number

The Unit ID Number is the identification number of the Model 800. This number is typically the telephone number where the unit is installed, or it may be designated using any number that best suits your application.

The purpose of the Unit ID Number is to immediately provide the source of any alarm, especially when using multiple Model 800 units in a complex monitoring system. When the Model 800 is called from a remote location, it always begins its message with the identification number:

“Hello, this is (Unit ID Number).”

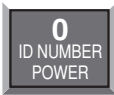
4.2.1 Programming the ID Number

To program the ID Number:

1. Press SET.



2. Press ID NUMBER.



3. Using the number keys, enter up to 16 digits for the ID number. The Model 800 will recite the digits as they are pressed.



4. Press ENTER. The Model 800 will respond: "Enter."



To Erase an ID Number, Press [SET], [ID NUMBER], [ENTER]

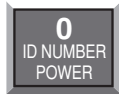
4.2.2 Interrogating the ID Number

To interrogate the ID numbers:

1. Press WHAT IS.



2. Press ID NUMBER. The Model 800 will recite the Unit ID Number programmed.



4.3 Dial-out Telephone Numbers

The Model 800 can store up to eight 48-digit phone numbers. These are the numbers that will be called during alarm dial-out. In the event of an alarm, the numbers are dialed sequentially, 1 through 8. Begin programming the first telephone number by assigning it to the key labeled with the number 1 on the keypad, and continue to assign any other telephone numbers in numerical order. *A pause, pound or star* can be added to an individual phone number to access different phone and beeper systems. See *Special Dialing, Section 4.5*.

4.3.1 Programming Dial-out Telephone Numbers

To program dial-out telephone numbers:

1. Press SET.



2. Press PHONE NUMBER.



3. Select which telephone number to program. Press any unassigned number key (from 1 to 8) to represent the new telephone number entry. The Model 800 will respond: *“Enter number.”*



4. Enter the complete telephone number using the number keys.



5. Press ENTER. The unit will respond with “Enter.”



6. Repeat above procedure to program up to eight separate telephone numbers.

4.3.2 Interrogating a Dial-out Telephone Number

To interrogate dial-out telephone numbers:

1. Press WHAT IS.



2. Press PHONE NUMBER.



3. Press a number key (from 1 to 8).



Model 800 will recite the corresponding telephone number. If there is no number programmed for a particular key, the unit will respond: “No number.”

4.3.3 Erasing a Telephone Number

To erase a telephone number:

1. Press SET.



2. Press PHONE NUMBER.



3. Press the number key (from 1 to 8) representing the telephone number you want to erase.



4. Press ENTER. The Model 800 will say "*Number # erased.*"



4.4 Dial-Out Test Mode

The 800 allows you to test your telephone programming by simulating an alarm dialout to any programmed telephone number. This can be a valuable tool for insuring that your programming is correct and also for troubleshooting dialing problems. In this mode all signals on the telephone line are audible through the local speaker.

4.4.1 To test a dialout phone number:

1. Press the SET key.



2. Press the TEST key.



The 800 will say “Enter Number.”

3. Press a number key (1–8) corresponding to the phone number entry you wish to test, and press ENTER.



The 800 will dial the number and announce the date and time for voice calls, or send its ID number for pager calls.

4.4.2 Manually Dial a Telephone Number

1. Press the SET key.



2. Press the TEST key.

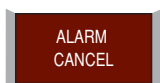


The 800 will say “Enter number.”

3. Press 0 then ENTER to enter manual dialing mode. The 800 will go off-hook and you should hear a dial tone through the speaker. Press any number keys to dial a telephone number.



4. Press ALARM CANCEL to hang up and exit the test.



4.5 Tone or Pulse Dialing

The Model 800 can dial out in pulse or Touch Tone™. Select the type of dialing, in either pulse or tone, depending upon the type of service provided by your telephone company. The default is tone.

To program for either pulse or tone:

1. Press the SENSOR ON/OFF key.



2. Press PHONE NUMBER T/P.



The Model 800 will respond: “*Tone*” to indicate that tone dialing is enabled, or “*Pulse*” to indicate that pulse dialing is on and enabled.

3. Repeat key sequence to switch between settings.

4.6 Special Dialing

The Model 800 has provisions for special dialing sequences. Special dialing sequences allow:

- Dialing that requires an access number to connect with an outside line.
- Dialing that requires the pound (#) or star (*).
- Dialing to a beeper or pager.

4.6.1 Special Dialing Keys

The following designated keys represent special functions when used with PHONE NUMBER entries:

1. *Pause*



PAUSE represents a two-second pause in dialing. It can be used when an access number is required before dialing to an outside line. (For example, in some cases a “9” or other number, must be dialed first, in order to get a dial tone for an outside line.)

2. *Pound (#)*



A pound may be required when calling some phone or beeper systems.

3. *Star (*)*



A star may be required when calling some phone or beeper systems.

4. *Code*



The CODE key can be used to perform special functions during the dialing sequence. These include: Pager dialing, Wait for Answer, and Switch to Touch-tones. These functions enable the Sensaphone to send a numeric page, or dial a telephone number + office extension, or combine pulse & touch-tone dialing in the same telephone number. Multiple codes can be used during telephone number programming if required. See section 4.5.4 for special instructions on dialing to a beeper or pager.

Code 1 Pager

When CODE + 1 is inserted as the first digit of the telephone number, the Model 800 will make a pager call. This means that the unit will expect the call to be answered by a paging service provider, then it will send its ID number (using touch-tones), followed by the digits that identify the zone(s) in alarm. The unit will hang-up after it completes the call. See section 4.5.4 for specific programming examples for dialing a pager.

Code 2 Wait-For-Answer

You can force your Sensaphone to Wait-For-Answer in the middle of dialing a telephone number. This is useful when calling a telephone extension that is initially answered by an auto-attendant. By inserting the wait-for-answer code you can instruct your Sensaphone to call the main number, then wait for an answer by the auto-attendant, then dial the extension. The Sensaphone will not speak its voice message until the telephone is answered at the extension.

Example:

SET + PHONE NUMBER + any unassigned number key 1-8

+ telephone number + CODE + 2 + extension number + ENTER

Code 3 Switch to Touch-tone

This command allows you to change from pulse dialing to touch-tone dialing in the middle of dialing a telephone number. This is useful when your telephone service only supports pulse dialing, but you need to send touch-ones after connecting – such as when dialing a numeric pager or navigating a voice menu.

Example:

In this example a telephone number is dialed, the Sensaphone waits for the call to be answered, then changes to touch-tones to dial an extension.

SET + PHONE NUMBER + any unassigned number key 1-8 +

telephone number + CODE + 2 + CODE + 3 +

extension number + ENTER

4.6.2 Incorporating a Pause

Incorporate PAUSE to access an outside telephone line:

1. Press SET.



2. Press PHONE NUMBER.



3. Press any unassigned number key (from 1 to 8) to represent the new telephone number entry. Model 800 will respond: *“Enter number.”*



4. From the number keys, enter the access digit (i.e., 9). The Model 800 will recite the digit.



5. Press PAUSE. The Model 800 will *“pause.”*



6. Enter the complete telephone number using the number keys. The Model 800 will recite the digits as they are pressed.



7. Press ENTER. The Model 800 will say *“Enter.”*



4.6.3 Incorporating a Pound (#) or Star (*)

Incorporate a pound or star if it is normally included in telephone number:

1. Press SET.



2. Press PHONE NUMBER.



3. Press any unassigned number key (from 1 to 8) to represent the new telephone number entry. Model 800 will respond: *"Enter number."*



4. Enter the telephone number using the number keys. The Model 800 will recite the digits as they are pressed.



5. Position the pound (#) or star (*) within the telephone number where required by pressing the designated keys. The Model 800 will say *"pound"* or *"star"* each time the key is pressed.



—OR—



6. Enter any remaining digits of the telephone number.
7. Press ENTER. The Model 800 will say *"Enter."*



4.6.4 Special Dialing to a Beeper or Pager

Your Sensaphone can be programmed to send an alarm message to a numeric beeper/pager. The message will include the Sensaphone's telephone number (ID number) and the Zone numbers that are in alarm. For example, if zones 1 and 4 are in alarm, the message on your pager would be: 8882227777-1-4, where 8882227777 is the unit's ID number. A Sound alarm will appear as alarm -9 and a Power alarm will appear as alarm -0. To program a telephone number for Pager dialout, you must enter Code 1 at the beginning of the telephone number. The Sensaphone will say "Code one, Pager" when you enter the command.

Follow the key sequence below to dial a numeric pager:

SET + PHONE NUMBER + any unassigned number key 1-8 +
CODE + 1 + pager telephone number + ENTER

To check your programming:

WHAT IS + PHONE NUMBER + assigned # 1-8

The Sensaphone will say "Pager", followed by the programmed telephone number.

To send a test page:

SET + TEST + assigned # key 1-8 + ENTER

The Sensaphone will let you listen to the dialout sequence through its speaker and send you a message that includes the Sensaphone's telephone number (ID number).

Voice Prompted Paging Systems

If your paging provider is answered by a voice prompt which requires you to enter one or more touch-tones to send a message, then use the wait-for-answer code (4.5.1) in combination with the Pause key and other number keys to navigate the voice menu until you reach the message entry point. The Sensaphone will automatically send it's telephone number, Zone numbers, and a pound (#) tone at the end of the number. For assistance contact Sensaphone Technical Support at 1(877)373-2700.

4.7 Rings Until Answer

Rings Until Answer is the programmed number of times the telephone rings before the Model 800 will answer an incoming call. This can be set from 1 to 15 rings. The default value is 4.

4.7.1 Programming Rings Until Answer

To program Rings Until Answer:

1. Press SET.



2. Press RINGS/TAD. The Model 800 will respond: *"Enter number."*



3. Using the number keys, enter a value.



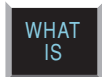
4. Press ENTER. The Model 800 will respond: *"Enter."*



4.7.2 Interrogating Rings Until Answer

To interrogate Rings Until Answer:

1. Press WHAT IS.



2. Press RINGS/TAD.



4.8 TAD (Telephone Answering Device)

The TAD feature is especially useful because it integrates the operation of the Model 800 with your telephone answering device (e.g. answering machine) in a way that retains the full flexibility of each system. This allows you to have on-demand telephone access to the Model 800, for obtaining a Status Report, or for issuing call-in commands, while your telephone answering device is set to receive outside calls. Programming for use with a telephone answering device (TAD) is always used in conjunction with Rings Until Answer, detailed in section 4.6.

NOTE

The TAD feature only applies to answering devices connected to the same telephone line as the Model 800.

4.8.1 TAD Enable/Disable

To enable/disable the TAD feature:

1. Press SENSOR ON/OFF.



2. Press RINGS/TAD.



The Model 800 will respond: “*TAD On.*” (If the Model 800 says “*TAD Off,*” repeat steps 1 and 2 to reactivate TAD.)

4.8.2 Using the TAD Feature

1. Make sure the TAD feature is enabled on the Model 800. (The default setting is disabled, so you must enable it first.)
2. Determine the number of rings your telephone answering device uses to answer the telephone. (Most answering devices require 4 rings; others are selectable.)
3. On the Model 800, program Rings Until Answer to a greater number than the number of rings set on your answering machine.

Example:

Telephone answering device, rings = 4

Model 800, Rings Until Answer = 6

Using the procedure just outlined, all incoming calls will be answered by the telephone answering device, allowing it to operate normally. With the programming just accomplished, the Model 800 can be accessed remotely, by telephone, to obtain the Status Report.

1. Dial the telephone number of the Model 800.
2. Let the telephone ring once and then hang up.
3. Wait approximately ten seconds
4. Call the Model 800 back.

It will answer the telephone on the first ring.

Explanation: The pattern of one ring, followed by a second call (within 30 seconds), signals the Model 800 to answer your incoming call, bypassing the telephone answering device.

NOTE

Special Case: If the Model 800 shares the same line with a telephone answering device, and during certain time periods, frequent, incoming calls are expected on that line, then you may want to temporarily disable the TAD feature. If you leave the TAD enabled, it will not adversely affect normal operation, but if two outside telephone calls are received within the same 30-second time window, the Model 800 will interpret this pattern as a signal to answer the telephone. If this occurs, press any key on the Model 800 to hang up.

4.8.3 No TAD In Use

If a telephone answering device is not used on the same telephone line as the Model 800, make sure that the TAD feature is disabled, or turned off. Only Rings Until Answer programming will determine how incoming calls are answered. For example, if you program Rings Until Answer to 3, incoming calls will be answered in 3 rings.

4.9 Listen-in Time

The Listen-in Time is the amount of time you can listen to sounds from the Model 800's built-in microphone at its installation site. When you call in for a Status Report, the Model 800 announces Listen-in Time at the end of its first round of status readings, saying, *"Listen for (programmed time entered)."* The programmable range is from 0 to 255 seconds (or up to 4.17 minutes). The default value is 15 seconds.

NOTE

The microphone is also used to monitor high sound level. See Chapter 5, Section 5.10 through Section 5.11.1.

4.9.1 Programming the Listen-in Time

To program the Listen-in Time:

1. Press SET.



2. Press LISTEN TIME. The Model 800 will respond: *"Enter seconds."*



3. Using the number keys, enter the seconds. The Model 800 will recite the digits as they are pressed.



4. Press ENTER. The Model 800 will respond: *"Enter."*



4.9.2 Interrogating the Listen-in Time

To interrogate the Listen-in Time:

1. Press WHAT IS.



2. Press LISTEN TIME. The Model 800 will recite the listen-in time.



4.10 Call Delay

Call Delay is the programmed length of time the Model 800 waits, following detection of an alarm, before it begins the dial-out sequence. This applies only to the first call. (Delay time between calls is also programmable: refer to Intercall Time, Section 4-12.)

The purpose for Call Delay is to allow time for personnel at the Model 800's installation site to respond to and cancel an alarm before dial-out begins. During this time, the Model 800 will audibly repeat its *"alarm"* message (unless the Local Voice Mute feature has been activated—refer to Section 4.10). The default for Call Delay is 30 seconds. Call Delay can be programmed from 0 seconds to 60 minutes (1 hour).

4.10.1 Programming the Call Delay

To program the Call Delay:

1. Press SET.



2. Press CALL DELAY.



The Model 800 will respond: *"Enter minutes."*

- Using the number keys, enter the minutes.



The Model 800 recites the digits as they are pressed.

- Press ENTER. The Model 800 responds: *"Enter seconds."*



- Using the number keys, enter the seconds. The Model 800 recites the digits as you press them.
- Press ENTER. The Model 800 responds: *"Enter."*



4.10.2 Interrogating Call Delay

To interrogate Call Delay:

- Press WHAT IS.



- Press CALL DELAY.



The Model 800 will recite the programmed Call Delay.

4.11 Local Voice Mute

When the Model 800 dials out to report an alarm, it also audibly recites the alarm message through its speaker. The Local Voice Mute command allows you to turn off the speaker at the Model 800's site during alarm dialouts and status call-ins. This feature is used to prevent intruders or unauthorized persons from hearing

the alarm dial-out message or from hearing the Status Report during an off-site call.

4.11.1 Enable/Disable Local Voice Mute

To enable/disable Local Voice Mute:

1. Press SENSOR ON/OFF.



2. Press MUTE.



The Model 800 will say “*Mute On*” to indicate that Local Voice Mute is enabled, or “*Mute Off*” to indicate that it is disabled.

3. Repeat key sequence to switch between enabled or disabled Local Voice Mute.

4.12 Voice Repetitions

The Voice Repetitions feature allows programming of the number of times the alarm message is repeated *per phone call* during alarm dial-out.

The maximum repetitions may be set to 10; the default is 3 repetitions.

4.12.1 Programming Voice Repetitions

To program Voice Repetitions:

1. Press SET.



2. Press VOICE REPS.



The Model 800 will respond: “*Enter number.*”

- Using the number keys, enter a value from 1 to 10.



- Press ENTER. The Model 800 will respond: "Enter."



4.12.2 Interrogating Voice Repetitions

To interrogate Voice Repetitions:

- Press WHAT IS.



- Press VOICE REPS.



The Model 800 will recite the number programmed.

4.13 Intercall Time

The Intercall Time is the programmable period of time the Model 800 waits in calling subsequent telephone numbers. Intercall Time is activated *only after alarm dial-out to the first telephone number fails to be acknowledged*. This period can be programmed from 10 seconds to 60 minutes. The default intercall time is 1 minute.

If an incoming telephone call is made to the Model 800 during Intercall Time (in between its dialing of subsequent telephone numbers to report an alarm), it will answer the incoming call and immediately report any existing alarms.

4.13.1 Programming Intercall Time

To program Intercall Time:

1. Press SET.



2. Press INTERCALL TIME.



The Model 800 will respond: *“Enter minutes.”*

3. Using the number keys, enter the minutes.



The Model 800 recites the digits as you press them.

4. Press ENTER. The Model 800 will respond: *“Enter seconds.”*



5. Using the number keys, enter the seconds. The Model 800 recites the digits as you press them.



6. Press ENTER. The Model 800 responds: *“Enter.”*

4.13.2 Interrogating Intercall Time

To interrogate Intercall Time:

1. Press WHAT IS.



2. Press INTERCALL TIME.



The Model 800 will recite the programmed Intercall Time.

4.14 Maximum Number of Calls (Max Calls)

The Max Calls feature controls the total number of repeated calling attempts by the Model 800 in the event of an alarm. When an alarm occurs, the dial-out process begins, and continues to cycle through your programmed telephone numbers until the alarm is acknowledged or until the maximum number of calls is reached. The Max Calls setting regulates the number of calls that will be made as a result of any alarms; if more than one alarm is detected at once, or if a second alarm occurs during dial-out on the first alarm, the Max Calls setting will start the calling process from zero, until the programmed number of calling attempts are completed.

The default setting for Max Calls is 100, but it may be programmed from 1 to 255 calls. Max Calls is cancelled when an alarm is acknowledged. If the maximum number of calls is completed and no alarm acknowledgement has occurred, the Model 800 will automatically acknowledge any alarm and stop the dial-out.

NOTE

If only one telephone number is programmed, the Model 800 will dial out a maximum of 15 times to report an alarm in accordance with FCC rules.

4.14.1 Programming Max Calls

To program Max Calls:

1. Press SET.



2. Press MAX CALLS.



The Model 800 will respond: “Enter number.”

3. Using the number keys, enter a value. The Model 800 will recite the digits as you press them.



4. Press ENTER. The Model 800 responds: “Enter.”



4.14.2 Interrogating Max Calls

To interrogate Max Calls:

1. Press WHAT IS.



2. Press MAX CALLS.



The Model 800 will recite the value set for Max Calls.

4.15 The Clock

The Model 800 has a built-in clock. The power-up time is 12 AM. The clock will keep time from 12 AM until you program the current time. It will then keep time from your programmed time. If the AC power fails, the clock will continue to keep time until the battery back-up fails. It will then reset to 12 AM when power is restored. *An incorrect time is a good indication that the power has failed and the batteries have been expended.*

4.15.1 Setting the Clock

To set the clock:

1. Press SET.



2. Press CLOCK.



3. Using the number keys, enter the correct time. The Model 800 will recite the digits as they are pressed.



4. If the time is AM, press the AM key. The Model 800 will say "am." If the time is PM, press the PM key. The Model 800 will say "pm."



Example: You want to set the clock to 9:45 AM. Press the following keys in the order shown:

SET + CLOCK + 9 + 4 + 5 + AM

4.15.2 Interrogating for the Current Time

To interrogate the Model 800 for the current time:

1. Press WHAT IS.



2. Press CLOCK. The Model 800 will recite the current time.



4.16 The Security Code

The Security Code is the last step after setting all other programming parameters for the Model 800. The code consists of a 4-digit number you select and will effectively prevent unauthorized changes to the Model 800's programming. When the Security Code is activated, all keyboard programming is locked. The Model 800 may be interrogated using the WHAT IS key, but the keyboard must be unlocked, via the Security Code, before any programming changes are possible.

4.16.1 Locking the Keypad

To program the Security Code:

1. Press SET.



2. Press CODE.



The Model 800 will say *"Enter security code."*

3. Using the number keys, enter 4 digits.
4. Press ENTER.



The Model 800 says, *"OK."* The keyboard is now locked.

If unauthorized persons attempt to set a parameter, an error message, *"Error 2,"* is returned. Whenever any operation except WHAT IS takes place without entering the security code first, this error message occurs.

4.16.2 Unlocking the Keypad

To unlock the keyboard:

1. Press WHAT IS.



2. Press CODE.



The Model 800 will say *“Enter Security Code.”*

3. Using the number keys, enter the digits for the code.



4. Press ENTER.



If the correct code is entered, the Model 800 will say *“OK.”* If the wrong code is entered, the Model 800 will say *“Error 2.”*

Chapter 5: Alarm Programming

This chapter explains the alarm programming and monitoring capabilities of the Model 800, with specific instructions for the following features:

- Configure zones as dry contact or temperature
- Enable/disable zones
- Program alarm Recognition Time for each zone
- Program high and low temperature limits
- Disable alarm response to high or low temperature
- Program temperature in Fahrenheit or Celsius scale
- Calibrate temperature
- Obtain current temperature
- Program AC power-failure Recognition Time
- Enable/disable AC power monitoring
- Program sound level sensitivity
- Program high sound Recognition Time
- Disable alarm response to high sound
- Use Exit Delay via Status Report

5.1 Zone Configuration

In preparing the Model 800 to sense an alert condition, the zones must be configured as dry contact (either open or closed) or as temperature zones. The default setting for zone 1 is temperature; for zones 2-8, the default is dry contact and open. To configure zone normality, sensors are first wired to the terminal strip at the back of the unit. (Refer to Chapter 2, Section 2.9–2.12, for an explanation on wiring zones.)

The configuration process directs the Model 800 to initialize the 8 zones and establish normal settings. Any change in the status of a zone (for example, from a normally open contact to a suddenly closed contact) is recognized as an **alert condition**. In the case of a temperature zone, an alert condition is recognized when established temperature limits are exceeded.

NOTE

Before starting keyboard commands to configure zone normality on the Model 800, *it is very important to check that the sensors you have wired to the unit are set in their normal, non-alarm positions.*

For example, if a magnetic reed switch (a normally-closed sensor used to detect unauthorized entry) has been wired to the Model 800, make sure that the door or window to be monitored is shut before configuring the zone. If a motion-detector is wired to the unit, it is advisable to block all sources of motion from the sensor before and during configuration.

5.1.1 Programming Zone Configuration

1. Press STANDBY to place the Model 800 in Standby mode.



2. Wire sensors to the zones to the back of the Model 800 (see Chapter 2, Section 2.10).

3. Press RUN. The red light glows when the Model 800 returns to Run mode.



4. Press SET.



5. Press CONFIG.



6. The Model 800 audibly recites the configuration for each of the eight zones:

- If the zone is ***open***, the Model 800 recites the number of the zone and says "*normally open.*"
- If the zone is ***closed***, the Model 800 recites the number of the zone, and says "*normally closed.*"
- If the zone is configured as ***temperature***, the Model 800 recites the number of the zone, followed by "*Temperature.*"

5.1.2 Interrogating Zone Configuration

1. Press WHAT IS.



2. Press CONFIG.



The Model 800 will audibly recite the configuration of each zone.

5.2 Enable/Disable Zones

This function allows you to enable or disable a zone's response to an alert condition. An enabled zone will respond to an alert condition and allow dial-out. A disabled zone will cause dial-out to be suppressed, but any existing alert conditions will be revealed during the Status Report. Enable/disable programming is useful during wiring of zones (see Chapter 2) or when a condition needs to be monitored, but is not critical enough to be programmed for dial-out reporting. It is important to verify zone status after performing any task that requires disabling. The default setting for all zones is enabled (ON).

If an alert condition exists when zones are re-enabled, Recognition Time will restart—refer to Section 5.3.

5.2.1 Changing Enabled/Disabled Zone Status

1. Press SENSOR ON/OFF.



2. Press the number (1 to 8) of the selected zone to enable/disable. The Model 800 says “*Alarm Disabled*” to indicate disabled or “*Alarm Enabled*” to indicate enabled.



5.2.2 Verifying Enabled/Disabled Zone Status

1. Press WHAT IS.



2. Press STATUS.



The Model 800 audibly recites the current status of every zone. In a Status Report, each zone is first identified by its zone number, followed by a report that specifies parameters currently affecting that zone. ***If a zone is disabled, the word “Alarm Disabled” immediately follows the number recited for that zone.***

For example, zone 3 is configured as a normally open, dry contact zone. During the Status Report:

- ***If disabled***, the Model 800 recites:
“Zone 3, the Alarm is Disabled” for zone 3.
- ***If enabled***, the Model 800 recites:
“Zone 3—OK,” for zone 3.

In another example, zone 2 is configured as a temperature zone. The current temperature is 76 degrees. During a Status Report:

- ***If disabled***, the Model 800 recites:
“Zone 2, the alarm is disabled, it is now 76 degrees fahrenheit—OK”
- ***If enabled***, the Model 800 recites:
“Zone 2—76 degrees fahrenheit—OK.”

5.3 Zone Recognition Time

The Zone Recognition Time is the length of time an alert condition must be present before a valid alarm exists and dial-out is activated. This time period is programmable, from 0 minutes, 0 seconds (for immediate response) up to a period of 540 minutes, 0 seconds. If an alert condition begins and then clears within the established Recognition Time, no dial-out will occur. When an alert condition continues beyond the programmed Recognition Time, the Model 800 initiates dial-out. The default setting for Zone Recognition Time is 0 minutes, 3 seconds.

5.3.1 Programming Zone Recognition Time

1. Press SET.



2. Press RECOGNITION TIME.



3. Press the number (1 to 8) of the selected zone to be programmed.



The Model 800 responds: “Enter minutes.”

4. Using the number keys, enter the minutes. For example, to set a Recognition Time of five minutes, simply press “5” on the keypad. The Model 800 recites the digits as they are pressed.



5. Press ENTER. The Model 800 responds: “Enter seconds.”



6. Using the number keys, enter the seconds. The Model 800 recites the digits as they are pressed.



7. Press ENTER. The Model 800 responds: “Enter.”



5.3.2 Interrogating Zone Recognition Time

1. Press WHAT IS.



2. Press RECOGNITION TIME.



3. Press the corresponding zone key (1 to 8).



The Model 800 recites the programmed Recognition Time for that zone.

5.4 Establishing High and Low Temperature Limits

High and low temperature limits can be separately programmed for each zone configured as temperature. Limits can range from -20° to $+150^{\circ}$ Fahrenheit, or from -30° to 65° Celsius.

When temperature limits exceed high or low settings, the Model 800 will dial out with an alarm message. Default settings are: 10° F for low temperature and 100° F for high temperature.

5.4.1 Programming Temperature Limits for a Selected Zone

1. Press SET.



2. Press TEMP LIMITS.



3. From the number keys, press a number (from 1 to 8) that corresponds to the temperature zone being programmed.



The Model 800 responds: *“Enter low temperature limit.”*

4. Using the number keys, enter a value for low temperature limit. The Model 800 will recite the digits as they are pressed. If a negative number is required, first press *, then enter the number.



5. Press ENTER.



The Model 800 responds: *“Enter high temperature limit.”*

6. Using the number keys, enter the value for high temperature limit. The Model 800 recites the digits as they are pressed.



7. Press ENTER. The Model 800 responds: "Enter."



NOTE

Do not set temperature limits too close to normal room temperature. Minor temperature fluctuations could result in frequent and unnecessary alarm dialouts.

5.4.2 Disabling Alarm Response to High or Low Temperature

To disable alarm response to either high or low temperature settings exclusively, enter the following temperature limit when programming the selected zone. (The Model 800 will not respond to temperatures encountered at maximum settings or beyond.) Begin by following the key sequence shown in Section 5.4.1, and when prompted to enter the high or low temperature value:

- Set high temperature to either +150° F or +65° C (high temperature limit) to prevent the Model 800 from responding to a high temperature alarm.
- Set low temperature to either -20° F or -30° C to prevent the Model 800 from responding to a low temperature alarm.

5.4.3 Interrogating High and Low Temperature Limits

1. Press WHAT IS.



2. Press TEMP LIMITS.



3. Press the number key corresponding to the selected temperature zone.



5.5 Temperature Scale

Temperature zones may be set in either Fahrenheit or Celsius degrees. The default temperature scale is Fahrenheit. To change to Celsius:

1. Press SENSOR ON/OFF.



2. Press °F / °C. The Model 800 responds: *"Degrees Celsius"* indicating Celsius scale has replaced Fahrenheit scale.



3. To return to Fahrenheit scale, repeat the key sequence. The Model 800 responds: *"Degrees Fahrenheit"* indicating Fahrenheit scale is in effect.

NOTE

When switching from Fahrenheit to Celsius, or vice versa, the change applies to all zones configured to read temperature. When switching temperature scales it is important to reset high and low temperature limits on all temperature zones. Refer to Section 5.4.1 to reset temperature limits.

5.6 Temperature Calibration

To compensate for minor variances in sensor accuracy, an offset may be programmed for each temperature zone. The amount of offset is measured in degrees Fahrenheit or degrees Celsius. Adjustments are possible within a range from -10 degrees to +10 degrees. For example, if zone 3 is sensing temperature and is reading 1 degree too high, then the calibration for zone 3 is set at -1 to obtain an accurate reading.

5.6.1 Programming Temperature Calibration

1. Press SET.



2. Press CALIBRATE.



3. Press the number (1 to 8) of the selected temperature zone to be calibrated.



4. Enter the number required to offset the current temperature reading so a correct reading is obtained.

- To program a positive offset number (up to +10 degrees), enter the number on the keypad. The Model 800 recites the digits as they are pressed.
- To program a negative offset number (up to -10 degrees), first press *. The unit responds with “*negative.*” Next, enter the number on the keypad. The unit recites the digits as they are pressed.



5. Press ENTER. The Model 800 responds: “*Enter.*”



NOTE

If you find that your calibration offset exceeds more than + 5 or -5 degrees, other complicating factors could be affecting normal operation of the Model 800. Call Sensaphone for technical assistance.

5.6.2 Interrogating Temperature Calibration

1. Press WHAT IS.



2. Press CALIBRATE.



3. Press the number key corresponding to the selected temperature zone.



5.7 Obtaining Current Temperature

Current temperature readings for each temperature zone may be accessed at any time. The Model 800 recites the zone number, and the actual temperature detected by the attached sensor, for all zones configured as temperature. To obtain current temperature:

1. Press WHAT IS.



2. Press TEST °F/°C.



5.8 AC Power Monitoring Enable/Disable

The Model 800 monitors AC power failure. This command enables or disables the power failure detection feature. When enabled, the Model 800 will monitor power and dial out when AC power failure exceeds a programmable span of time (refer to AC Power Failure Recognition Time, Section 5.9).

The default setting for AC power monitoring is enabled (on). When disabled, the Model 800 will not dial-out to report power failure.

5.8.1 Enabling/Disabling the AC Power Alarm

1. Press SENSOR ON/OFF.



2. Press POWER.



- The Model 800 will say “*Power Alarm Disabled*” to indicate that the power alarm is disabled, or
 - The Model 800 will say “*Power Alarm Enabled*” to indicate that the power alarm is enabled.
3. Repeat key sequence to change settings.

5.9 AC Power Failure Recognition Time

The AC Power Failure Recognition Time is the length of time that AC electric power is off before a valid alarm is recognized and dial-out begins. The default setting is 5 minutes, 0 seconds, but is programmable from 0 seconds to a maximum of 540 minutes.

When AC power failure occurs, and throughout the programmed Recognition Time, the Model 800 steadily repeats the message “*the power is off*” at the unit’s installation site. There is no Call Delay programming available for AC power failure. Immediately following Recognition Time, the Model 800 begins the dial-out process to report power failure.

To cancel the power-failure message locally at the keypad (during or after Recognition Time) press the ALARM CANCEL key on the Model 800 keypad. This action also cancels the dial-out process.

5.9.1 Programming Power Failure Recognition

Time

1. Press SET.



2. Press RECOGNITION TIME.



3. Press POWER. The Model 800 responds: *"Enter minutes."*



4. Using the number keys, enter the number of minutes. The Model 800 will recite the digits as they are pressed.



5. Press ENTER. The Model 800 responds: *"Enter seconds."*



6. Using the number keys, enter the number of seconds. The Model 800 will recite the digits as they are pressed.



7. Press ENTER. The Model 800 responds: *"OK."*



5.9.2 Interrogating Power Failure Recognition Time

1. Press WHAT IS.



2. Press RECOGNITION TIME.



3. Press POWER.



The Model 800 will recite the power Recognition Time.

5.10 Sound Alarm Monitoring

This feature allows you to program the level and duration of sound that will cause the Model 800 to respond to an alarm and dial-out. It may be useful to desensitize the Model 800 to sound if it is installed in an area with a relatively high noise level, or where a loud noise occurs frequently but is not associated with an alarm. In some applications, it may be desirable to increase sound sensitivity to low sound levels.

5.10.1 Programming Sound Alarm Sensitivity

The sensitivity setting for sound alarm monitoring ranges from 1 to 160. A value of 1 makes the microphone the MOST sensitive to changes in sound. The value 160 makes the microphone the LEAST sensitive to sound. The default value is **32**.

1. Press SET.



2. Press CALIBRATE.



3. Press SOUND. The Model 800 responds: "Enter number."



- Using the number keys, enter a value for sound sensitivity.



The Model 800 recites the digits as you press them.

- Press ENTER. The Model 800 responds: “Enter.”



5.10.2 Interrogating Sound Sensitivity

- Press WHAT IS.



- Press CALIBRATE.



- Press SOUND. The Model 800 recites the programmed sound sensitivity level.



5.10.3 Programming High Sound Alarm Recognition Time

The Recognition Time for sound alarm monitoring ranges from 5 seconds to 60 seconds. The default value is 8 seconds.

- Press SET.



- Press RECOGNITION TIME.



3. Press SOUND. The Model 800 responds: “Enter seconds.”



4. Using the number keys, enter the number of seconds. The Model 800 will recite the digits as they are pressed.



5. Press ENTER.



5.10.4 Interrogating High Sound Alarm Recognition Time

The Recognition Time for sound alarm monitoring ranges from 5 seconds to 60 seconds. The default value is **8** seconds.

1. Press WHAT IS.



2. Press RECOGNITION TIME.



3. Press SOUND. The Model 800 responds by *reciting the Sound Recognition time*



5.11 High Sound Alarm Enable/Disable

The Model 800 monitors sound through the built-in microphone. When the sound level suddenly exceeds the programmed high sound limit, the Model 800 will respond with an alert condition. The increased sound level must continue throughout the programmed recognition time. The default for high sound alarm is enabled (on).

NOTE

The microphone is also used for listening to on-site sounds. Refer to Chapter 4, Section 4.8. Disabling the sound alarm does not affect listen-in capability.

5.11.1 Changing Enabled/Disabled High Sound Alarm

1. Press SENSOR ON/OFF.



2. Press SOUND. The Model 800 will say *"Sound Alarm Disabled"* to indicate disabled or *"Sound Alarm Enabled"* to indicate enabled.



3. Repeat key sequence to change settings.

5.12 Exit Delay

When tripping an alarm is unavoidable, yet a true alert condition has not actually occurred, the alarm response, including dial-out, can be temporarily suppressed.

The Model 800 is able to suppress and then reset its dial-out function automatically through use of the Status Report. This is especially convenient when an alert condition is created upon exiting a monitored door, and there is no way to cancel from the local keypad.

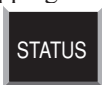
Example: You are planning to exit through a monitored door. Prior to exiting, you initiate a Status Report recitation at the Model 800 keypad by pressing WHAT IS, followed by STATUS, (key sequence shown below). This allows you approximately 40 seconds to exit without activating the Model 800's programmed response to an alarm. At the conclusion of the status report, normal alarm response is reactivated.

To use exit delay, initiate the Status Report.

1. Press WHAT IS.



2. Press STATUS. The Model 800 recites the full Status Report; during this time, you are able to exit the monitored area without tripping an alarm.

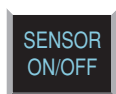


5.13 Designating A Zone As Unused

This feature allows you to mark selected Zones, Power, or Sound as unused, which will prohibit them from going into alarm and will also leave them out of the status report. Note that programming for the selected Zone will be preserved when the Zone is marked as “unused” and will not be reconfigured if automatic Zone configuration is activated.

To designate a Zone as unused:

1. Press the SENSOR ON/OFF key.

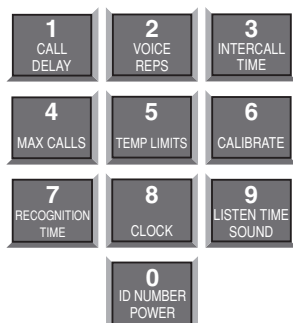


2. Press the SET key.



The 800 will say “Enter Zone Number.”

3. Press the corresponding number of the Zone you wish to mark as unused.



The 800 will respond by saying Zone 1–4, Power, or Sound “Off/On.” Repeat the key sequence to place the Zone back in use.

Chapter 6: Acknowledgment, Status Report & Remote Access

In addition to communication and alarm monitoring capabilities, the Model 800 will also respond to your instructions and provide you with access to information on monitored conditions at all times.

By issuing commands to the unit, either at the installation site or over standard telephone lines, the following features may be activated:

- Acknowledgment of existing alarms
- The Status Report on all monitored conditions.
- Limited programming.

6.1 Alarm Acknowledgment

When the Model 800 dials out with an alarm message, it will request acknowledgment before hanging up. Acknowledgment indicates to the unit that the alarm message has been received. Upon acknowledgment, the Model 800 will cancel the dial-out sequence.

There are three ways* that an alarm is acknowledged directly:

- Local Acknowledgment
- Touch-Tone™ Acknowledgment
- Callback Acknowledgment

* A fourth method of alarm acknowledgment is indirect. Refer to Max Calls, Chapter 4, Section 4.13 for an example of automatic alarm acknowledgment.

6.1.1 Local Acknowledgment

To acknowledge an alarm locally (directly at the installation site of the Model 800), press the ALARM CANCEL Key.

6.1.2 Touch-Tone™ Acknowledgment

This method of remote alarm acknowledgment works with a Touch-Tone™ telephone.

Example: You receive a call from the Model 800, reporting that an alarm exists. The message concludes: “*Enter Acknowledgement code.*” Now, or at any time during this call,

you may acknowledge the alarm with the code “555” if you are using a Touch-Tone™ telephone.

- To enter “555,” press the number (5) key on the Touch-Tone™ phone keypad three times. The Model 800 will respond: **“Alarm Acknowledged.”** The Model 800 will hang up and the dial-out sequence, including any further response to the alarm, will be cancelled.
- If you enter the wrong code or do not enter it within 10 seconds following the conclusion of the message, the Model 800 will respond: **“Error, Enter Acknowledgement code.”** If you do not enter the acknowledgement a second time the unit will say “error” then “goodbye” and hang up. The alarm is still not acknowledged until you call back. You have a period equal to the programmed Intercall Time to call the unit back and enter the “555” acknowledgment code. If you are calling from a pulse or rotary telephone, refer to Callback Acknowledgment, Section 6.1.3, below.

6.1.3 Callback Acknowledgment

Callback Acknowledgment is a feature that allows you to acknowledge an alarm without entering Touch-Tones™. This feature is disabled by default and must be enabled by entering the key sequence below. When Callback Acknowledgment is enabled, simply call the unit back and allow the line to ring 10 times. The unit will then answer the call, announce the alarm, then say “Alarm Acknowledged.” This indicates that the alarm has been acknowledged.

To enable or disable Callback Acknowledgment:

1. Press SENSOR ON/OFF.



2. Press STATUS.



The Model 800 will say “*Callback Acknowledgement Enabled*” to indicate that Callback Acknowledgment is Enabled, or “*Callback Acknowledgement Disabled*” to indicate that Callback Acknowledgment is Disabled. This method of remote alarm acknowledgment works with any telephone: pulse, rotary, or Touch-Tone™.

Example: The Model 800 calls you with an alarm message. You answer the call with a rotary or pulse telephone, and do the following:

- You listen to the message and hang up.
- Then you call the Model 800 back on any telephone. You must wait for 10 rings—this signals the Model 800 to answer your telephone call. (Make sure to call back within the programmed setting for Intercall Time—refer to Chapter 4, Section 4.12.)

When the Model 800 answers your return call, it announces the alarm. Then it says: “*Alarm Acknowledged.*” This indicates that the alarm has been acknowledged.

NOTE

If you have the TAD feature (telephone answering device) enabled, call the unit and let the phone ring once, then hang up. Wait a few seconds then call the unit back a second time. The model 800 will now answer on the first ring. If TAD is disabled, the telephone must be allowed to ring 10 times. This serves as a precaution against a random alarm acknowledgment. Refer to Chapter 4, Section 4.7, for complete information on using the TAD feature.

6.2 Status Report

The Status Report allows access to complete information on all monitored conditions either locally, from the keypad, or by telephone, from any location. The Model 800 will answer an incoming telephone call following the programmed Rings Until Answer (refer to Chapter 4, Section 4.6). Included with the Status Report are messages related to alarm conditions, AC power, battery backup and sound level. It also provides an opportunity for listening to on-site sounds (refer to Listen-in Time, Chapter 4, Section 4.8).

To initiate the Status Report:

1. Press WHAT IS.

